

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of the Claims:**

Claims 1-21 (canceled)

22. (previously presented): A transparent, non-elastomeric, polythiourethane/urea material comprising the reaction product of:

- (a) at least one ( $\alpha$ ,  $\omega$ )-diiso(thio)cyanate prepolymer having a number average molecular weight ranging from 100 to 3000  $\text{gmol}^{-1}$ , said prepolymer being free from disulfide (-S-S-) linkage, and
- (b) at least one aromatic primary diamine, in an equivalent molar ratio amine function/iso(thio)cyanate function ( $\text{NH}_2/\text{NCX}$ ,  $\text{X}=\text{O}, \text{S}$ ) ranging from 0.5 to 2, said aromatic primary diamine being free from disulfide (-S-S-) linkage, and

wherein, at least one of the prepolymer or the diamine contains one or more S atoms in its chain.

23. (previously presented): The transparent, non elastomeric polythiourethane/urea material of claim 22, wherein the equivalent ratio  $\text{NH}_2/\text{NCX}$  ranges from 0.90 to 1.10.

24. (previously presented): The material of claim 22, wherein the equivalent ratio  $\text{NH}_2/\text{NCX}$  ranges from 0.93 to 0.95.

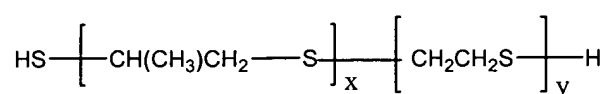
25. (previously presented): The material of claim 22, wherein the ( $\alpha$ ,  $\omega$ )-diiso(thio)cyanate prepolymer is a cycloaliphatic or aromatic prepolymer and wherein the prepolymer is the reaction product of at least one ( $\alpha$ ,  $\omega$ ) diol or dithiol prepolymer and at least one cycloaliphatic or aromatic diiso(thio)cyanate.

26. (previously presented): The material of claim 25, wherein the ( $\alpha$ ,  $\omega$ ) diol or dithiol prepolymer contains at least one S atom in its chain.

27. (previously presented): The material of claim 25, wherein the ( $\alpha$ ,  $\omega$ ) diol or dithiol prepolymer is a polysulfide or a mixture of polysulfides.

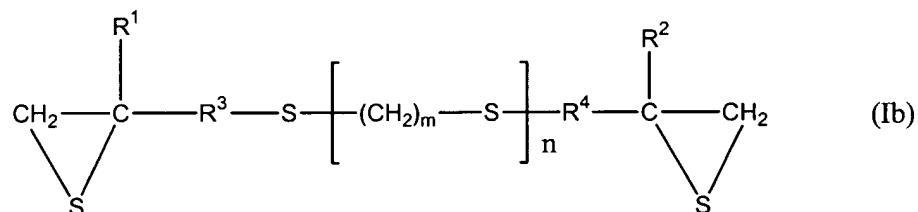
28. (currently amended): The material of claim 27, wherein the polysulfide or mixture of polysulfides is selected from the group consisting of:

- Prepolymers of formula :

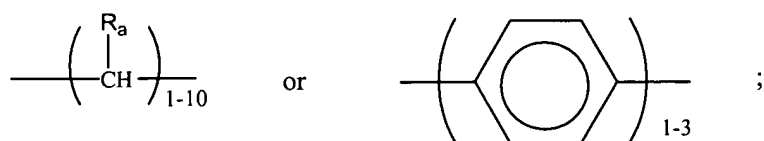


in which x and y are such that the number average molecular weight of the prepolymer ranges from 100 to 3000  $\text{gmol}^{-1}$ ;

-prepolymers resulting from the polymerization of diepisulfides of formula:

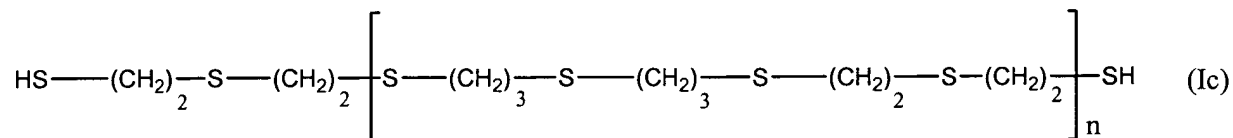


in which  $\text{R}^1$  and  $\text{R}^2$  are, independently from each other, H, alkyl, aryl, alkoxy, alkylthio or arylthio;  $\text{R}^3$  and  $\text{R}^4$  are, independently from each other,



$\text{R}_a$  designates H, alkyl, aryl, alkoxy, aryloxy, alkylthio or arylthio and, n is an integer from 0 to 4 and m is an integer from 1 to 6, and

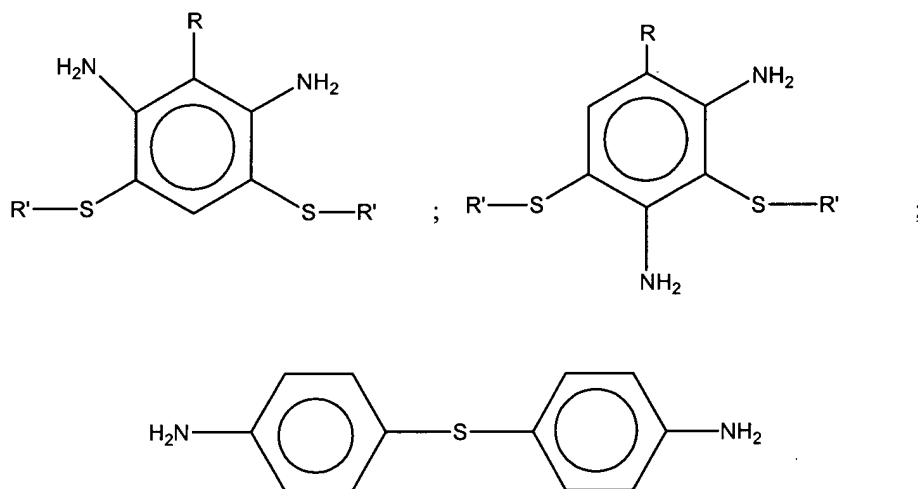
-prepolymers of formula:



where  $[[n]] \ n'$  is such that the number average molecular weight ( $\overline{M}_n$ ) of the prepolymer ranges from 500 to 1500g mol<sup>-1</sup>.

29. (previously presented): The material of claim 22, wherein the aromatic diamine contains at least one S atom in its molecule.

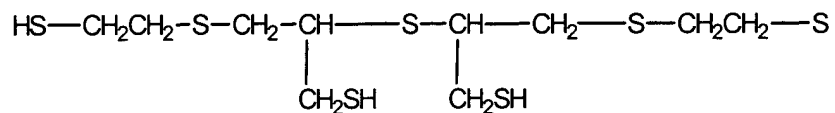
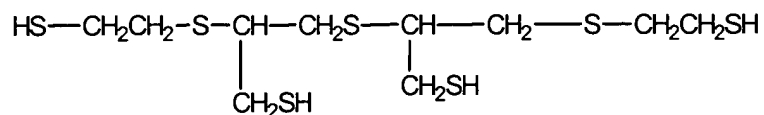
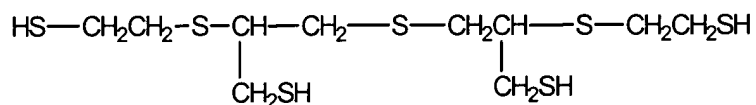
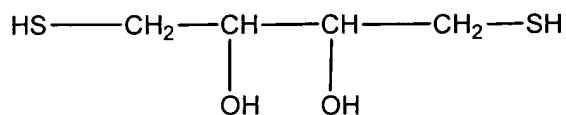
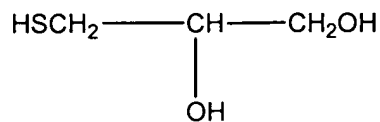
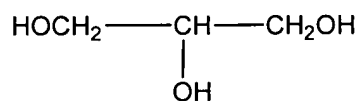
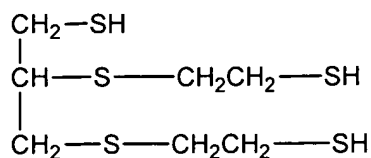
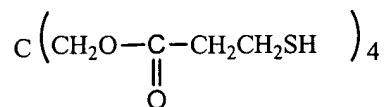
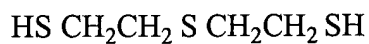
30. (previously presented): The material of claim 29 wherein the diamine is selected from



in which R is H or an alkyl group and R' is an alkyl group, and mixtures of the above diamines.

31. (currently amended): The material of claim 22, wherein the material is also the reaction product of the ( $\alpha$ ,  $\omega$ )-diiso(thio)cyanate prepolymer with a di-, tri- or tetra alcohol, a di-, tri or tetrathiol or a mixture thereof, which is mixed with said at least one aromatic primary diamine.

32. (previously presented): The material of claim 31, wherein the alcohols and thiols are selected from the groups consisting of :



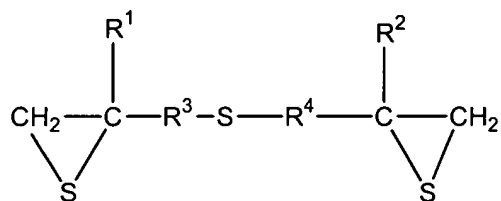
and mixtures thereof.

33. (previously presented): The material of claim 22 having a refractive index,  $n_D^{25}$ , higher than 1.53.

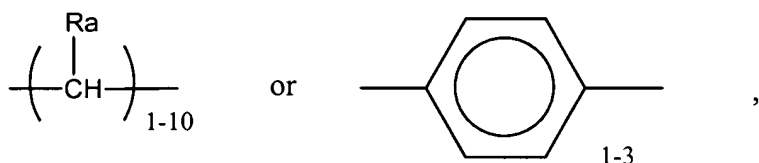
34. (previously presented): The material of claim 22 having a refractive index,  $n_D^{25}$ , of at least 1.55.

35. (currently amended): The material of claim 22 having a refractive index,  $n_D^{25}$ , of at least 1.57.

36. (previously presented): The material of claim 27, wherein the polysulfide is an hyperbranched polysulfide resulting from the polymerization of a diepisulfide of formula :

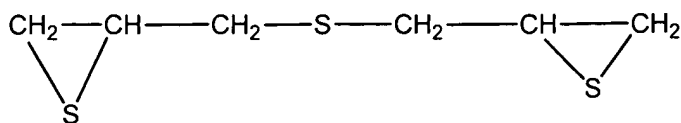


in which  $R^1$  and  $R^2$  are, independently from each other, H, alkyl, aryl, alkoxy, alkylthio or arylthio,  $R^3$  and  $R^4$  are independently from each other,

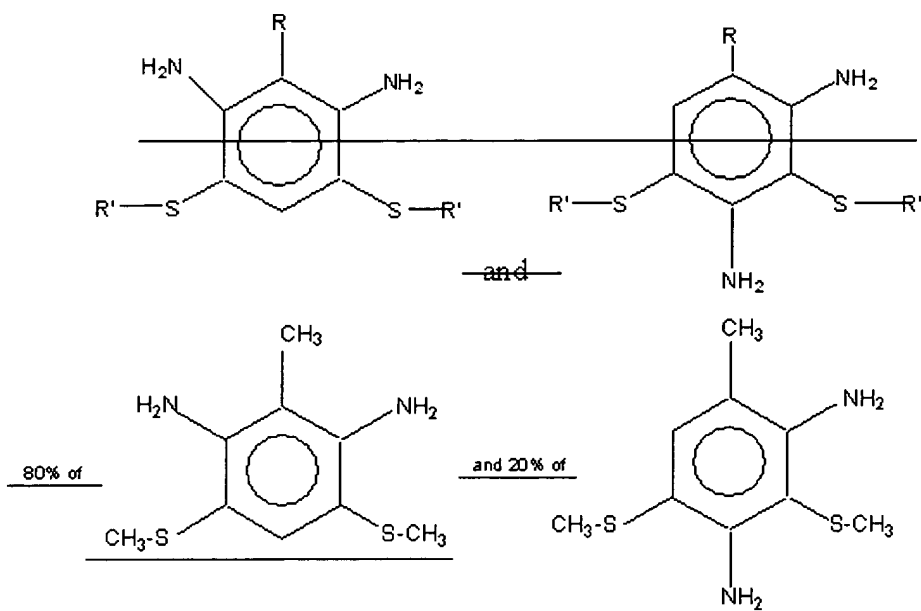


Ra designates H, alkyl, aryl, alkoxy, aryloxy, alkylthio or arylthio, with 2-mercaptoethyl sulfide (DMES).

37. (previously presented): The material of claim 36, wherein the diepisulfide has formula :



38. (previously presented): An optical article made from a material according to claim 22.
39. (currently amended): The material of claim 28, wherein  $[[n]] \underline{n'}$  is such that the number average molecular weight ( $\overline{M}_n$ ) of the prepolymer ranges from 650 to 1350 g mol<sup>-1</sup>.
40. (previously presented): The material of claim 25, wherein the prepolymer is the reaction product of at least one ( $\alpha$ ,  $\omega$ ) dithiol prepolymer.
41. (previously presented): The material of claim 25, wherein the prepolymer is the reaction product of at least one ( $\alpha$ ,  $\omega$ ) dithiol prepolymer further comprising at least one S atom in its chain.
42. (previously presented): The material of claim 30, wherein R and R' are CH<sub>3</sub>.
43. (currently amended): The material of claim 30, wherein the diamine is a mixture 80/20 ~~by weight of by weight~~:



44. (canceled).